BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Improvements and Asphalting to roads at Vaishnavi Layout and Surrounding Areas in ward No 09 in Vidyaranyapura sub Division.**

								Estimate Cost:	3324646.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	Drain Desilting								
	Main Road Vaishnavai Layout		2	100.00	0.45	0.35	31.50		
			2	250.00	0.45	0.40	90.00		
	Srinidhi layiut 8th A Cross		2	150.00	0.45	0.35	47.25		
	Cross Road		2	50.00	0.45	0.40	18.00		
	Berm Cutting								
	Main Road Vaishnavai Layout		2	100.00	1.25	0.25	62.50		
			2	100.00	1.25	0.25	62.50		
	Srinidhi layiut 8th A Cross		2	150.00	1.25	0.25	93.75		
			2	50.00	1.25	0.25	31.25		
	Main Road		1	150.00	6.50	0.40	390.00		
	For Road Work		1	104.00	5.00	0.15	78.00		
	Vishnavi layout BS Slab Drain		1	440.00	0.60	0.60	158.40		
	Culverts		2	7.00	2.00	1.20	33.60		
	CC Road		1	45.00	6.00	0.30	81.00		
	Total Qty						**1177.75**	TP	
	Qty upto 125 %						**1005.00**	75.00	**75375.00**
	Qty Above 125 %						**172.75**	79.83	**13790.00**
	PWD SR 2015-16 Basic Rate	77.00							
	Area Weightage @ 8%	6.16							
		83.16							
	Tender Premium @ -4.01%	3.33							
	Total	**79.83**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	Main Road Vaishnavai Layout		2	100.00		1.35	270.00		
			2	250.00		1.35	675.00		
	Srinidhi layiut 8th A Cross		2	150.00		1.35	405.00		
			2	45.00		1.35	121.50		
	Total Qty						**1471.50**	TP	
	Qty upto 125 %						**928.13**	58.00	**53831.00**
	Qty Above 125 %						**543.38**	61.16	**33235.00**
	PWD SR 2015-16 Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
		63.72							
	Tender Premium @ -4.01%	2.56							
	Total	**61.16**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				**1471.50**		
	Total Qty						**1471.50**	TP	
	Qty upto 125 %						**928.13**	75.00	**69609.00**
	Qty Above 125 %						**543.38**	75.68	**41122.00**
	PWD SR 2015-16 Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
		78.84							
	Tender Premium @ -4.01%	3.16							
	Total	**75.68**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	Culvet		2	7.00	2.00	0.15	4.20		
	CC Road		1	45.00	6.00	0.15	40.50		
							44.70	4000.00	**178800.00**
5	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2014-15**	Sqm							
			Not Executed				0.00		
							0.00	993.00	**0.00**
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	Culvert		2	7.00	1.80	0.10	2.52		
							2.52	5000.00	**12600.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
	Culvert		2	7.00	1.80	0.23	5.80		
	CC Road		1	45.00	6.00	0.10	27.00		
							32.80	5000.00	**163980.00**
8	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
			0.090	5.80			0.52		
							0.52	78351.00	**40871.00**
9	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2014-15**	Sqm							
			2	7.00	0.60		8.40		
			2x2	7.00		0.23	6.44		
			2x2	1.80		0.23	1.66		
							16.50	314.00	**5180.00**
10	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 143 / Item No. 19.53 / PWD SR 2014-15**	Sqm							
	Main Road Vaishnavai Layout		1	100.00	5.50		550.00		
			1	100.00	5.50		550.00		
	Srinidhi layiut 8th A Cross		1	150.00	5.50		825.00		
	Damaged Portion		1	50.00	5.50		275.00		
							2200.00	22.00	**48400.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15.**	Cum							
	Main Road Vaishnavai Layout		1	100.00	5.50	0.20	110.00		
			1	250.00	5.50	0.20	275.00		
	Srinidhi layiut 8th A Cross		1	150.00	5.50	0.20	165.00		
	Damaged Portion		1	50.00	5.50	0.20	55.00		
			1	104.00	5.50	0.20	114.40		
	Total Qty						**719.40**	TP	
	Qty upto 125 %						**567.19**	1400.00	**794063.00**
	Qty Above 125 %						**152.21**	1645.23	**250425.00**
	PWD SR 2015-16 Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
		1713.96							
	Tender Premium @ -4.01%	68.73							
	Total	**1645.23**							
12	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	Main Road Vaishnavai Layout		1	100.00	5.50		550.00		
			1	250.00	5.50		1375.00		
	Srinidhi layiut 8th A, B, C Cross		2	150.00	5.50		1650.00		
	Damaged Portion		1	50.00	5.50		275.00		
	Total Qty						**3850.00**	TP	
	Qty upto 125 %						**3781.25**	31.00	**117219.00**
	Qty Above 125 %						**68.75**	26.95	**1853.00**
	PWD SR 2015-16 Basic Rate	26.00							
	Area Weightage @ 8%	2.08							
		28.08							
	Tender Premium @ -4.01%	1.13							
	Total	**26.95**							
13	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 159 / Item No. 21.20.2 / PWD SR 2014-15**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Main Road Vaishnavai Layout		1	100.00	5.50	0.025	13.75		
			1	250.00	5.50	0.025	34.38		
	Srinidhi layiut 8th A, B, C Cross		2	150.00	5.50	0.025	41.25		
	Damaged Portion		1	50.00	5.50	0.025	6.88		
	Total Qty						**96.25**	TP	
	Qty upto 125 %						**94.54**	8475.00	**801205.00**
	Qty Above 125 %						**1.71**	6465.85	**11073.00**
	PWD SR 2015-16 Basic Rate	6237.00							
	Area Weightage @ 8%	498.96							
		6735.96							
	Tender Premium @ -4.01%	270.11							
	Total	**6465.85**							
14	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**1177.75**		
	Total Qty						**1177.75**	TP	
	Qty upto 125 %						**1005.00**	73.00	**73365.00**
	Qty Above 125 %						**172.75**	70.81	**12232.00**
	PWD SR 2015-16 Basic Rate	68.30							
	Area Weightage @ 8%	5.46							
		73.76							
	Tender Premium @ -4.01%	2.96							
	Total	**70.81**							
	EIRL								
15	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete 7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2015-16**	Sqm							
			1	440.00		1.35	594.00		
							594.00	636.53	**378098.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
		663.12							
	Tender Premium @ -4.01%	26.59							
	Total	**636.53**							
16	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
			2x2	7.00	0.60	0.90	15.12		
							15.12	3969.49	**60019.00**
	PWD SR 2015-16 Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
		4135.32							
	Tender Premium @ -4.01%	165.83							
	Total	**3969.49**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
17	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. **Page No. 109 / Item No. 15.4 / PWD SR 2015-16**	Sqm							
			2x2	7.00		0.80	22.40		
							22.40	93.30	**2090.00**
	PWD SR 2015-16 Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
		97.20							
	Tender Premium @ -4.01%	3.90							
	Total	**93.30**							
18	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 147 / Item No. 19.60 / PWD SR 2015-16**	Cum							
			1	175.00	5.50	0.30	288.75		
							288.75	298.57	**86211.00**
	PWD SR 2015-16 Basic Rate	288.00							
	Area Weightage @ 8%	23.04							
		311.04							
	Tender Premium @ -4.01%	12.47							
	Total	**298.57**							
								Total	**3324646.00**
Rupees Thirty Three Lakh(s) Twenty Four Thousand Six Hundred Forty Six Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per PWD SR of 2014-15, 2015-16+/- Tender Premium.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

"Modified Estimate Sanctioned"

Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
Bangalore 92